

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Previously Presented) A method for the fracturing of underground coal deposits comprising:
  - a. providing one or more injecting wellbores to an underground coal formation;
  - b. sealing all other boreholes to said underground coal formation to which burning could channel from one or more of said injecting wells;
  - c. injecting an oxidizing gas through said one or more injecting wellbores and into said underground coal formation;
  - d. igniting the coal in said underground coal formation; and
  - e. injecting a predetermined amount of a cooling media to force the burning of the coal away from said one or more injecting wellbores.
2. (Original) A method of claim 1 further comprising:  
extinguishing the burning coal.
3. (Original) A method of claim 1 further comprising:  
injecting a slug of water into the formation in which the coal is burning to cause additional fracturing of the coal formation.
4. (Original) A method of claim 1 wherein said oxidizing gas is air enriched with oxygen.
5. (Original) A method of claim 1 wherein said oxidizing gas is air.

6. (Original) A method of claim 1 wherein said cooling media is water.
7. (Previously Presented) A method for the fracturing of underground coal deposits comprising:
  - a. injecting an oxidizing gas through a wellbore and into an underground coal formation;
  - b. igniting the coal in said underground coal formation;
  - c. injecting a predetermined amount of a cooling media to force the burning of the coal away from said wellbore; andwherein said cooling media is a foam containing water.
8. (Original) A method of claim 1 wherein said predetermined amount of a cooling media is less than the amount needed to offset the BTUs produced by the burning coal.
9. (Cancelled)
10. (Previously Presented) A method for the fracturing of underground coal deposits comprising:
  - a. injecting an oxidizing gas through a wellbore and into an underground coal formation, said oxidizing gas being injected at a pressure substantially equal to or the fracturing exceeding the fracturing pressure of said coal formation;
  - b. igniting the coal in said underground coal formation; and
  - c. injecting a predetermined amount of a cooling media to force the burning of the coal away from said wellbore.
11. (Original) A method of claim 10 further comprising:  
extinguishing the burning coal.

12. (Original) A method of claim 10 further comprising:  
injecting a slug of water into the formation in which the coal is burning to cause additional fracturing of the coal formation.

13. (Original) A method of claim 12 further comprising:  
extinguishing the burning coal.

14. (Original) A method of claim 10 wherein said predetermined amount of a cooling media is less than the amount needed to offset the BTUs produced by the burning coal.

15. (Previously Presented) A method for the fracturing of underground coal deposits comprising:

a. injecting an oxidizing gas through a wellbore and into an underground coal formation, said oxidizing gas being injected at a pressure substantially equal to or exceeding fracturing pressure of said coal formation;

b. igniting the coal in said underground coal formation;

c. injecting a predetermined amount of a cooling media to force the burning of the coal away from said wellbore; and

wherein the predetermined amount of cooling media is a quantity sufficient for the BTU value of the cooling media, air and coal is 60% or less of BTU value of the air and coal.

16. (Previously Presented) A method of claim 10 wherein said oxidizing gas is injected at a pressure equal to or exceeding the fracturing pressure of said coal formation.

17. (Previously Presented) A method of claim 15 wherein said oxidizing gas is injected at a pressure equal to or exceeding the fracturing pressure of said coal formation.

18. (Cancelled)

19. (Currently Amended) A method of ~~claim 18 further comprising~~ for fracturing of underground coal deposits comprising:

- a. providing a single open wellbore to an underground coal bearing formation;
- b. injecting an oxidizing gas through said wellbore and into said underground coal formation;
- c. igniting the coal in said underground coal formation;
- d. injecting a predetermined amount of a cooling media to force the burning of the coal away from said wellbore; and
- e. extinguishing the burning coal.

20. (Currently Amended) A method of ~~claim 18 further comprising~~ for fracturing of underground coal deposits comprising:

- a. providing a single open wellbore to an underground coal bearing formation;
- b. injecting an oxidizing gas through said wellbore and into said underground coal formation;
- c. igniting the coal in said underground coal formation;
- d. injecting a predetermined amount of a cooling media to force the burning of the coal away from said wellbore; and
- e. injecting a slug of water into the formation in which the coal is burning to cause additional fracturing of the coal formation.

21. (Currently Amended) A method of claim 18<sup>9</sup> wherein said oxidizing gas is air enriched with oxygen.

22. (Currently Amended) A method of claim 18<sup>9</sup> wherein said oxidizing gas is air.

23. (Currently Amended) A method of claim 18<sup>9</sup> wherein said cooling media is water.

24. (Currently Amended) A method ~~of claim 18~~ for fracturing of underground coal deposits comprising:

- a. providing a single open wellbore to an underground coal bearing formation;
- b. injecting an oxidizing gas through said wellbore and into said underground coal formation;
- c. igniting the coal in said underground coal formation; and
- d. injecting a predetermined amount of a cooling media to force the burning of the coal away from said wellbore

wherein said cooling media is a foam containing water.

25. (Currently Amended) A method of claim 18<sup>9</sup> wherein said predetermined amount of a cooling media is less than the amount needed to offset the BTUs produced by the burning coal.

26. (Currently Amended) A method ~~of claim 18~~ for fracturing of underground coal deposits comprising:

- a. providing a single open wellbore to an underground coal bearing formation;
- b. injecting an oxidizing gas through said wellbore and into said underground coal formation;
- c. igniting the coal in said underground coal formation;
- d. injecting a predetermined amount of a cooling media to force the burning of the coal away from said wellbore; and

wherein said oxidizing gas is injected at a pressure substantially equal to or exceeding the fracturing pressure of said coal formation.

27. (Previously Presented) A method for the production of clean gas from a coal formation comprising:

- a. providing a single open wellbore to an underground coal bearing formation;
- b. injecting an oxidizing gas through said wellbore and into said underground coal formation;

- c. igniting the coal in said underground coal formation;
- d. injecting a predetermined amount of a cooling media to force the burning of the coal away from said wellbore;
- e. extinguishing the burning coal; and
- f. removing gas from said underground coal bearing formation through said wellbore.

28. (Previously Presented) A method for the production of clean gas from a coal formation comprising:

- a. providing one or more injecting wellbores to an underground coal formation;
- b. sealing all other boreholes to said underground coal formation to which a burning could channel from one or more of said injecting wells during the time coal is being burned in said formation;
- c. injecting an oxidizing gas through said one or more injecting wellbores and into said underground coal formation;
- d. igniting the coal in said underground coal formation;
- e. injecting a predetermined amount of a cooling media to force the burning of the coal away from said one or more injecting wellbores;
- f. extinguishing the burning coal; and
- g. removing gas from said underground coal bearing formation through one or more of said wellbores.

29. (New) A method of claim 1 wherein said cooling media is a foam containing water.

30. (New) A method of claim 7 further comprising:  
extinguishing the burning coal.

31. (New) A method of claim 7 further comprising:  
injecting a slug of water into the formation in which the coal is burning to cause additional fracturing of the coal formation.
32. (New) A method of claim 7 wherein said oxidizing gas is air enriched with oxygen.
33. (New) A method of claim 7 wherein said oxidizing gas is air.
34. (New) A method of claim 7 wherein said cooling media is water.
35. (New) A method of claim 7 wherein said cooling media is a foam containing water.